Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Oasis Petroleum North America LLC Well Name/Number: Fannie Federal 2759 43-19H Location: SW SE Section 19 T27N R59E County: Roosevelt, MT; Field (or Wildcat) Wildcat
Air Quality
(possible concerns)
Long drilling time: No, 30-40 days drilling time.
Unusually deep drilling (high horsepower rig): Triple derrick drilling rig to drill a single lateral
horizontal Bakken Formation test, 21,227'MD/10,313'TVD.
Possible H2S gas production: Yes, slight H2S possible, Mississippian Formations.
In/near Class I air quality area: No Class I air quality area nearby.
Air quality permit for flaring/venting (if productive): <u>Yes, DEQ air quality permit required under 75-2-211.</u>
Mitigation:
X Air quality permit (AQB review)
X Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: Plan is to drill a single lateral horizontal Bakken Formation test,
21,227'MD/10,313'TVD. If there are existing pipeline for natural gas in the area then associated gas
must be tied into system or if no gathering system nearby associated gas can be flared under Board Rule
<u>36.22.1220.</u>
Water Quality
(possible concerns)
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and cemented back to surface, to protect freshwater zones in adjacent water wells. Also, covering Fox Hills aquifer. Adequate surface casing and operational BOP equipment to prevent problems.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings: None anticipated, crossing only ephemeral drainage.

High erosion potential: Yes high erosion potential on cut and fill slopes, location will require a moderate cut of up to 31.5' and a moderate fill of up to 25.5', required.

Loss of soil productivity: No, location to be restored after drilling, if nonproductive. If productive unused portion of this drillsite will be reclaimed.

Unusually large wellsite: No a large well site 430'X370', for a single well drilling pad.

Damage to improvements: <u>Slight surface use appears to be cultivated land and grassland, above an irrigated field to the south.</u>

Conflict with existing land use/values: Slight

Mitigation

- __ Avoid improvements (topographic tolerance)
- __ Exception location requested
- _X Stockpile topsoil
- __ Stream Crossing Permit (other agency review)
- _X Reclaim unused part of wellsite if productive
- __ Special construction methods to enhance reclamation
- X Other Requires DEQ General Permit for Storm Water Discharge Associated with Construction Activity, under ARM 17.30.1102(28).

Comments: Access will be over existing county road, Bainville-Snowden Road and existing well access road. New access road will be built into this location, about 4134' into this location from the existing county road. Oil based invert drilling fluids will be recycled. Completion fluids will hauled to a commercial Class II disposal. Cuttings and solids will be buried/solidified on site in the lined reserve pit. The lined pit will be allowed to dry and the pit backfilled. No concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: <u>Nearest residences are about 1.125 miles to the northwest, about 1.125 miles to the southeast, about 1.25 miles to the west and about 1.325 miles to the southwest from this location.</u> The Town of Bainville, Montana about 5.6 miles to the northwest from this location.

Possibility of H2S: Yes, slight from Mississippian Formations.

Size of rig/length of drilling time: Triple drilling rig 30 to 40 days drilling time.

Mitigation:

_X	Pro	per	BOP	equ	ipment

- __ Topographic sound barriers
- __ H2S contingency and/or evacuation plan
- __ Special equipment/procedures requirements

Other:_____

Comments: Adequate surface casing cemented to surface with working BOP stack should mitigate any problems.

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: None identified. Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: Species identified as threatened or endangered are the Pallid

Sturgeon, Piping Plover, Interior Lease Tern and Whooping Crane. Candidate species is the Sprague's Pipit. NH tracker website indicates, six(6) species of concern: Great Blue Heron, Piping Plover, Boblink, Whooping Crane, Least Tern and Northern Hawk Owl. NH Tracker website list one (1) potential species of concern: Hayden's Shrew.

Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other: Comments: Private surface lands. There may be species of concern that maybe impacted by this
wellsite. We ask the operator to consult with the surface owner as to what he would like done, if a species of concern is discovered at this location. The Board of Oil & Gas has no jurisdiction over private surface lands.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites: None identified.
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other: Comments: Private surface lands. There may be possible historical/cultural/paleontological sites
that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to his
desires to preserve these sites or not, if they are found during construction of the wellsite. The Board of
Oil & Gas has no jurisdiction over private surface lands.
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
Population increase or relocation Comments: Wildcat well. No concerns
Comments. Whiteat well. INO Concerns
Remarks or Special Concerns for this site
An exploratory single lateral horizontal Bakken Formation test to be drilled to 21,227'MD/10,313'TVD.
Summary: Evaluation of Impacts and Cumulative effects
·
No long term impacts expected, some short term impacts will occur, but can be mitigated.

I conclude that the approval of the subject Notice of Intent to Drill (does/ $\underline{\text{does}}$ not) constitute a major action of state government significantly affecting the quality of the human environment, and (does/ $\underline{\text{does}}$ not) require the preparation of an environmental impact statement.

Prepared by (BOGC): /s/Steven Sasaki
(title:) Chief Field Inspector
Date: July 9, 2012
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Roosevelt County water wells
(subject discussed)
May 28, 2012
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA
COUNTIES, Roosevelt County, Montana
(subject discussed)
<u>May 28, 2012</u>
Montana Natural Heritage Program Website
(Name and Agency)
Heritage State Rank= S1, S2, S3, Location T27N R59E
(subject discussed)
May 28, 2012
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: